

## LMD-2110W

21.5-inch entry-level LCD monitor



### Overview

#### **Affordable high picture performance**

The LMD-2110W is an elegant 21.5-inch widescreen LCD monitor specifically designed to provide reference video monitoring solution for entry-level video applications.

Its 21.5-inch size and Full HD (1920x1080) picture resolution makes this video monitor ideal in various applications such as entry-level non linear editing, videographer, high definition office viewing, security and medical, and some others.

A 10-bit processor ensures accurate picture reproduction will less image artefacts. Combined with a high purity filter, the LMD-2110W provides excellent colour depth for precise colour reproduction.

Equipped with a HDMI interface as standard, this new entry-level monitor is an ideal match for professional and semi-professional high-definition applications. This monitor can be used for desktop editing and office viewing applications with video or computer format input through DVI to HDMI conversion cable.

The LMD-2110W also supports both HD-SDI and SD-SDI with the optional BKM-341HS adaptor.

The LMD-2110W wins hands-down in terms of breadth of operation and performance when compared to standard PC monitors: - video image reproduction is far superior due to its moving picture optimisation circuitry and colour temperature and Gamma control.

Slim and lightweight, the LMD-2110W also offers outstanding installation flexibility. It has a table stand and VESA mount as standard enabling it to be easily placed on a desktop, in a monitor wall or on a ceiling.

Entirely at home in many professional environments, the LMD-2110W truly redefines high performance in the entry-level sector.

### **Suitable for a Wide Range of Applications**

Ideal for many entry-level applications from office viewing and monitor wall in Broadcast and corporate environments, desktop monitor for non linear editing, reference video monitor for videographers, security and medical as well.

### **Cost-Effective Feature-Rich Performance**

The LMD-2110W offers professional functionality in an economic package. Optimised for moving picture reproduction, it delivers accurate colour rendition and greyscale – thanks to its CRT-like gamma curve. And it sports a wide range of video interfaces and professional features allowing confident video signal evaluation.

### **Superb High Resolution Display**

Equipped with a 16:9 Widescreen 1920x1080 LCD panel it delivers outstandingly sharp high brightness and contrast pictures

### **Comprehensive High-Definition Capability via HDMI input**

HDMI offers access to uncompressed digital video and audio signals. The range of applications using these connectors is

expanding and HDMI is increasingly being employed.

## **Future Proof**

Multi-format and HDMI capability ensures that the LMD-2110W remains current.

## **Consistently Optimal Picture Performance**

Less 'drift' than CRT displays, with no convergence, geometry or linearity issues, and no susceptibility to magnetic fields.

## **Exceptionally Versatile**

Equally suited to AV or IT-based applications due to a broad range of inputs and multi-format signal capabilities.

## **Easier to Install and Accommodate than CRT**

Space saving / lightweight / low heat output.

## **Low Maintenance**

No routine convergence, geometry or purity adjustments necessary. No susceptibility to magnetic fields.

## **Reduced Operator Fatigue**

Flicker-free picture is more comfortable to view and reduces eye-strain.

## **Lower Total Cost of Ownership than CRT**

Simpler and cheaper to install, transport and store.

Long operational life / high reliability.

Low energy bills.

Low maintenance cost.

Reduced environmental disposal costs.

## Features

### **Full HD-resolution (1920 x 1080) LCD panel**

Delivers outstandingly crisp, high brightness and high contrast widescreen HD images with a fast transient response.

### **Cost-Effective Feature-Rich Performance**

The LMD-2110W offers professional functionality in an economic package. Optimised for moving picture reproduction, it delivers accurate colour rendition and greyscale – thanks to its CRT-like gamma curve. And it sports a wide range of video interfaces and professional features allowing confident video signal evaluation.

### **High-purity Colour Filter**

The LMD-2110W monitor provides high-brightness, high-contrast images thanks to its wide aperture LCD panel. In addition, the use of precisely manufactured RGB colour filter allows this monitor to reproduce colours with stunning depth and saturation - creating highly natural images.

### **109% Peak White and 10-bit Signal Processing**

Incorporating high-purity RGB colour filter and a 10-bit signal processing engine, the LMD-2110W monitor offers stunning 109% peak white reproduction without clipping and a smooth grey scale along CRT-like gamma.

### **Minimized Picture Delay**

Picture delay can be minimized for audio synchronization. Selecting LINE DOUBLER in I/P mode, the signal processing (I/P conversion) period is less than one field (0.5 frames).

### **Input Versatility**

The LMD-2110W is equipped with a full range of analogue SD inputs including composite NTSC/PAL, Y/C (S-Video), 525i/625i component, and RGB. This monitor can also handle SD-SDI input using an optional BKM-320D SD-SDI input adaptor. Furthermore, it offers an HD signal input capability via the HDMI and analogue component interface.

## **Optional HD/SD-SDI input**

With the BKM-341HS optional adaptor, the LMD-2110W supports both HD-SDI and SD-SDI input, with a higher picture quality and shorter depth compared to the BKM-320D SD-SDI input adaptor.

## **Multi-Format Signal Support**

Includes NTSC, PAL, component, RGB, Y/C, 480/60i, 575/50i, 480/60p, 576/50p, 1080/50i, 1080/60i, 720/50p, 720/60p, 1080/24psf, 1080/25psf, 1080/24p, 1080/25p and 1080/30p. The LMD-2110W also accepts standard definition digital signals with an optional SD-SDI input adaptor.

## **HDMI input for High Definition Display**

Increasingly an interface of choice for entry-level production.

## **Colour Temperature Adjustment**

D65, D93 or user presets can be selected.

## **CRT-like Gamma Curve**

For accurate greyscale performance.

## **Selectable Scan Size and Aspect Ratio**

Normal scan (0%), Over-scan (5%) and Full scan is available. Also, aspect ratio can be switched between 16:9 and 4:3.

## **Three Colour Tally**

The tally lamp can be lit via a parallel remote connector and status identified by three colours: red, green or amber.

## **Video Markers**

Equipped with a central marker plus 4:3 and 16:9 markers for Over-scan and Normal-scan display.

## **Blue Only Mode**

In the blue only mode, a monochrome display is shown. This mode is convenient for chroma and phase adjustments and monitoring of signal noise.

### Remote Control

Via a programmable parallel remote interface.

### Mono Audio Monitoring

The LMD-2110W is equipped with a mono speaker.

### VESA Mounting (100x100mm)

Desktop or simple wall / ceiling mounting.

### 19-inch Rack Mountable kit

With optional MB-529 fixing kit.

### External Sync

The unit can be operated on the sync signal supplied from an external sync generator.

## Specifications

### Picture Performance

Panel	a-Si TFT Active Matrix LCD
Picture Size (Diagonal)	547 mm 21 5/8 inches
Effective Picture Size (H x V)	447.0 x 268.0 mm 18 7/8 x 10 5/8 inches
Resolution (H x V)	1920 x 1080 pixels (Full HD)
Aspect	16:9
Pixel Efficiency	0.9999
Colors	Approx.16.7 million colors

Viewing Angle (Panel Specification)	80°/80°/85°/85° (typical) (up/down/left/right contrast 10:1)
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## Input

Composite Input	BNC (x1), 1 Vp-p $\pm$ 3dB, negative synchronization
Y/C Input	Mini DIN 4-pin (x1) Y: 1 Vp-p $\pm$ 3dB sync negative C: 0.286 Vp-p $\pm$ 3dB (NTSC burst signal level), 0.3 Vp-p $\pm$ 3dB (PAL burst signal level)
RGB, Component Input	BNC (x3) RGB: 0.7 Vp-p $\pm$ 3dB (Sync On Green, 0.3 Vp-p negative sync.) Component: 0.7 Vp-p $\pm$ 3dB (75% chrominance standard color bar signal)
HDMI Input	HDMI (x1) (HDCP correspondence)
Audio Input	Phono jack (x2), -5 dBu 47 k $\Omega$ or higher
External Sync Input	BNC (x1), 0.3 to 4.0 Vp-p negative polarity binary
Option Input	D-sub 9-pin (x1), female

Parallel Remote	Modular connector 8-pin (x1) (Pin-assignable)
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## Output

Composite Output	BNC (x1), Loop-through, with 75 $\Omega$ automatic terminal function
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Y/C Output	Mini DIN 4-pin (x1), Loop-through, with 75 $\Omega$ automatic terminal function
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RGB, Component Output	BNC (x3), Loop-through, with 75 $\Omega$ automatic terminal function
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External Sync Output	BNC (x1), Loop-through, with 75 $\Omega$ automatic terminal function
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Audio Monitor Output	Phono jack (x2) , Loop-through
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Speaker (Built-in) Output	0.5 W (mono)
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## General

Power Requirements	100 V to 240 V AC, 1.3 A to 0.6 A, 50/60 Hz
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Power Consumption	Approx. 69 W (max.)
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(1) Maximum possible



Inrush Current	<p>inrush current at initial switch-on (Voltage changes caused by manual switching): 60A peak, 0.4A r.m.s. (240V AC)</p> <p>(2) Inrush current after a mains interruption of five seconds (Voltage changes caused at zero-crossing): 48A peak, 0.3A r.m.s. (240V AC)</p>
Operating Temperature	<p>0°C to 35°C (Recommended: 20°C to 30°C)</p> <p>32°F to 95°F (Recommended: 68°F to 86°F)</p>
Operating Humidity	30% to 85% (no condensation)
Storage/Transport Temperature	<p>-20°C to +60°C</p> <p>-4°F to +140°F</p>
Storage/Transport Humidity	0% to 90%
Operating/Storage/Transport Pressure	700 hPa to 1060 hPa

Dimensions (W x H x D) [*1]	515.0 x 355.0 x 86.0 mm (without a stand) 515.0 x 403.0 x 264.0 mm (with a supplied stand) 20 3/8 x 14 x 3 1/2 inches (without a stand) 20 3/8 x 15 7/8 x 10 1/2 inches (with a supplied stand)
Mass	Approx. 8.6 kg Approx. 18 lb 15 oz
Supplied Accessories	AC power cord (1) AC plug holder (1) Operating Instructions (1) CD-ROM (1) Using the CD-ROM Manual (1)
Optional Accessories	MB-529 Mounting Bracket BKM-320D SDI Input Adaptor BKM-341HS HD/SD-SDI Input Adaptor

## Notes

Note [\*1] The values for dimensions are

approximate.

Environmental notice  
for customers in the  
USA

Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or see [www.sony.com/mercury](http://www.sony.com/mercury) for additional information. No Hg (mercury) contained due to change LED backlight from Serial Number 3200001.

## Related products



### **BKM-341HS**

HD / SD-SDI input adaptor



### **MCS-8M**

Compact SD / HD audio and video switcher



### **HXR-NX100**

1.0-type Exmor R™ CMOS Sensor NXCAM camcorder with maximum 48x zoom lens and 3 independent manual lens rings recording XAVC S, AVCHD and DV



### **HXR-NX5R**

Three 1/2.8-inch Exmor CMOS sensors Full HD AVCHD / XAVC S camcorder with 40x zoom with Clear Image Zoom and built-in wireless functionality.

## Gallery

